

CLAIMS

What is claimed is:

1. A positioning mechanism for reflectors in a scanner, comprising:

a carrier, substantially a plate-like member, for carrying an optical module;

5 at least two angular positioning members, mounted on both sides of said carrier and each formed with at least a cutoff of supporting surface for at least a reflector to fit in; and

at least two resilient arms, extending from said carrier to outer sides of said supporting surfaces of said angular positioning members, thereby forming a receiving portion between said resilient arms and said angular positioning members, a clearance
10 between an end of said resilient arm and said supporting surface being less than thickness of said reflector.
2. The positioning mechanism according to claim 1 wherein said resilient arm is a blade with rectangular section.
3. The positioning mechanism according to claim 1 wherein the end of said resilient
15 arm bends toward said angular positioning member.
4. The positioning mechanism according to claim 1 wherein the end of said resilient arm bends opposite to said angular positioning member.
5. The positioning mechanism according to claim 1 wherein said resilient arm is L-shaped.
- 20 6. The positioning mechanism according to claim 1 wherein said end of said resilient arm is formed with a slope for guiding said reflector to fit in.

7. The positioning mechanism according to claim 1 wherein two walls are formed on both sides of said carrier and at least one of the resilient arms is formed on said walls.

8. The positioning mechanism according to claim 1 wherein two walls are formed on both sides of said carrier, and said walls are reinforced with a plurality of perpendicular
5 ribs.

9. The positioning mechanism according to claim 1 wherein said carrier and said resilient arms are formed by injection-molded plastic.

10. The positioning mechanism according to claim 1 wherein said carrier is formed with a plurality of ribs, at least one of the ribs thereof has a U-shaped cutoff for one of the
10 surfaces of the reflector to lean on.

11. The positioning mechanism according to claim 10 wherein said angular positioning member is formed with at least a L-shaped cutoff for positioning said reflector in accompany with said U-shaped cutoff of said rib.

12. The positioning mechanism according to claim 1 wherein said angular
15 positioning members are fixed to said carrier through screws.

13. The positioning mechanism according to claim 1 wherein each of said angular positioning members includes at least a via hole for receiving at least a stud of said carrier.

14. The positioning mechanism according to claim 13 wherein said via hole is slot-like for adjusting position of said angular positioning member.

20 15. The positioning mechanism according to claim 1 wherein said supporting surface is U-shaped.

16. The positioning mechanism according to claim 1 wherein said angular positioning member is L-shaped.

17. The positioning mechanism according to claim 1 wherein said supporting surface on said angular positioning member is made of metal.

18. The positioning mechanism according to claim 1 wherein said reflectors are blades with rectangular sections.